

415

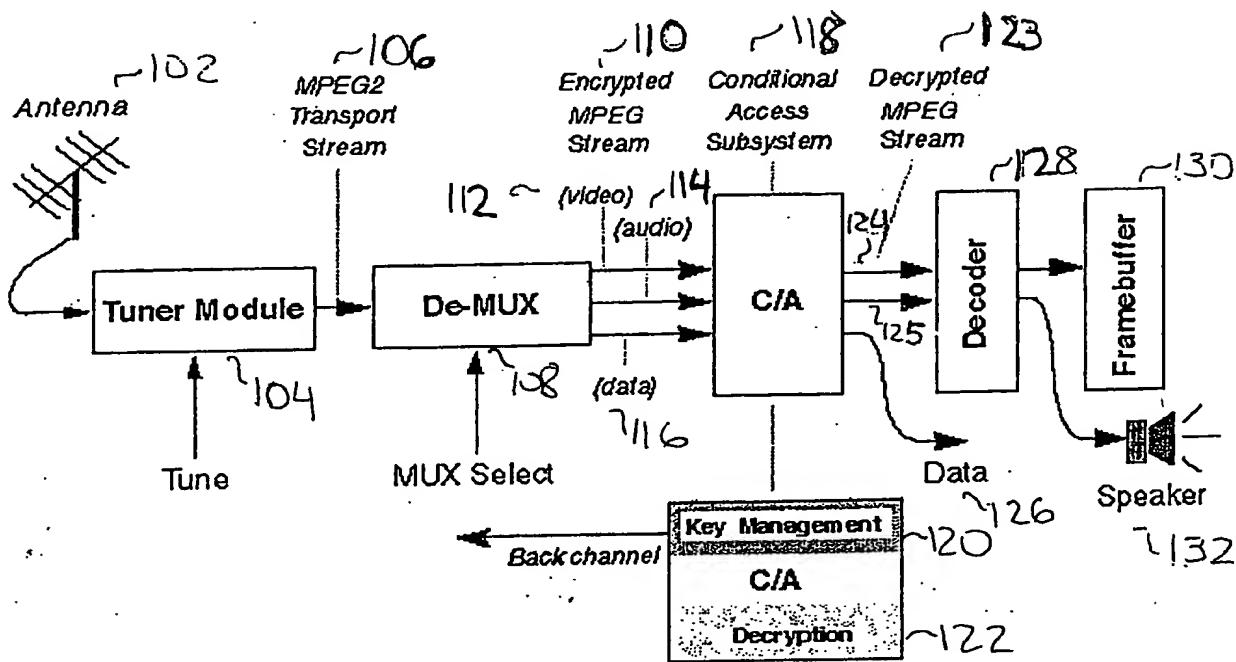


FIG. 1

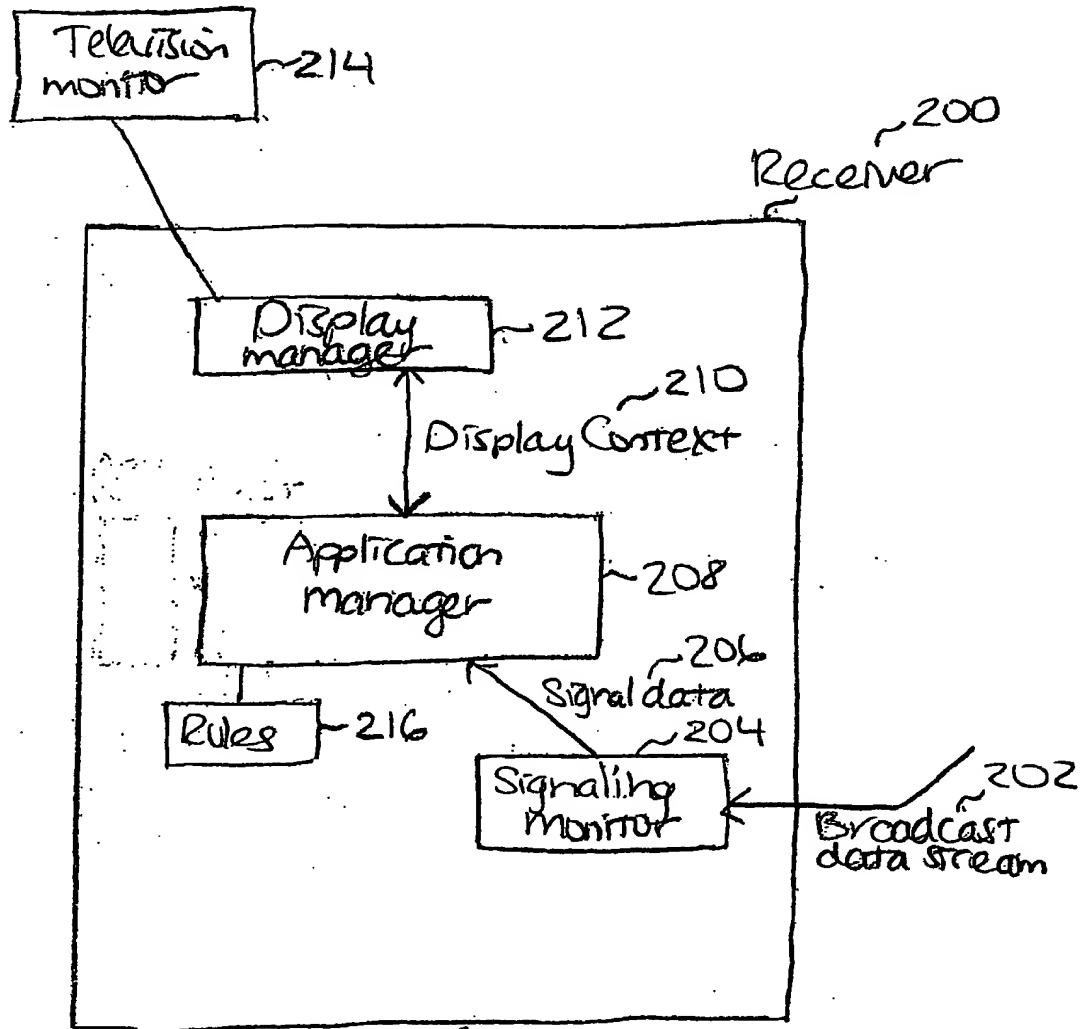


FIG. 2A

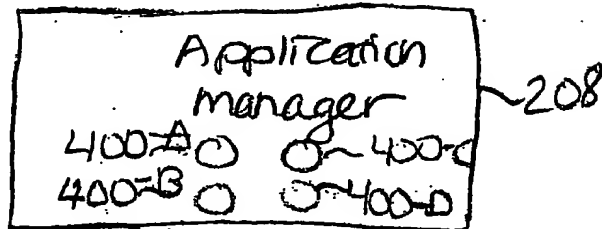
- Rules 216
- 218 ~ 1. Application manager manages one or more applications
 - 220 ~ 2. Only one application can be active at a time
 - 222 ~ 3. Only one application can be displayed at a time
 - 224 ~ 4. Only active applications are displayed

FIG. 2B

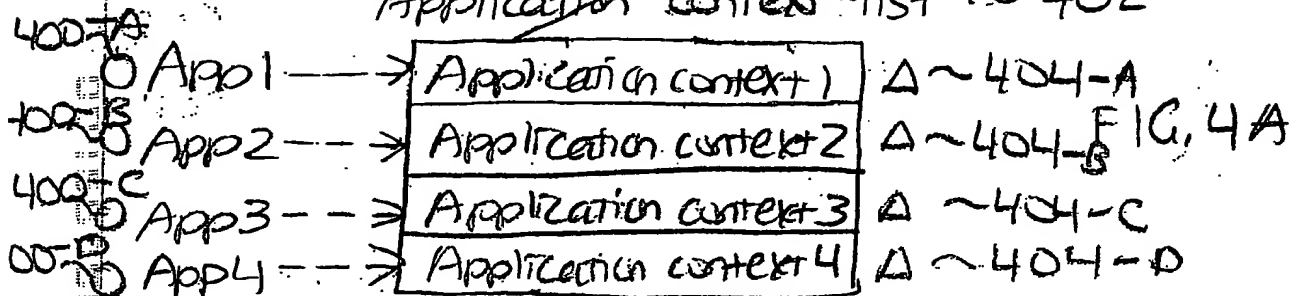
Signal Data ~302

App-present-in-data-stream; BOOLEAN	~304
Location (e.g., directory, filename)	~306
Authentication	~308
Permissions	~310

FIG. 3



Application context list ~ 402



Application Context Δ ~ 404

Class loader identifier	<u>406</u>
Signal data identifier	<u>408</u>
Display context identifier	<u>410</u>
Application identifier	<u>412</u>
Application environment Object	<u>414</u>
Current application state	<u>416</u>



FIG. 4B



List of display contexts ~502

App1 →	101	Context 1
App2 →	102	Context 2
App3 →	103	Context 3
App4 →	104	Context 4

FIG. 5A

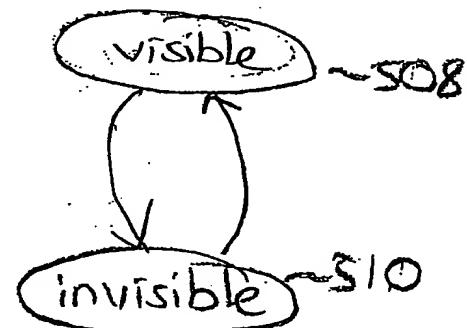


FIG. 5B

516 ~	Application state	Active	Paused
514 ~	Display state	Visible	Invisible

FIG. 5C

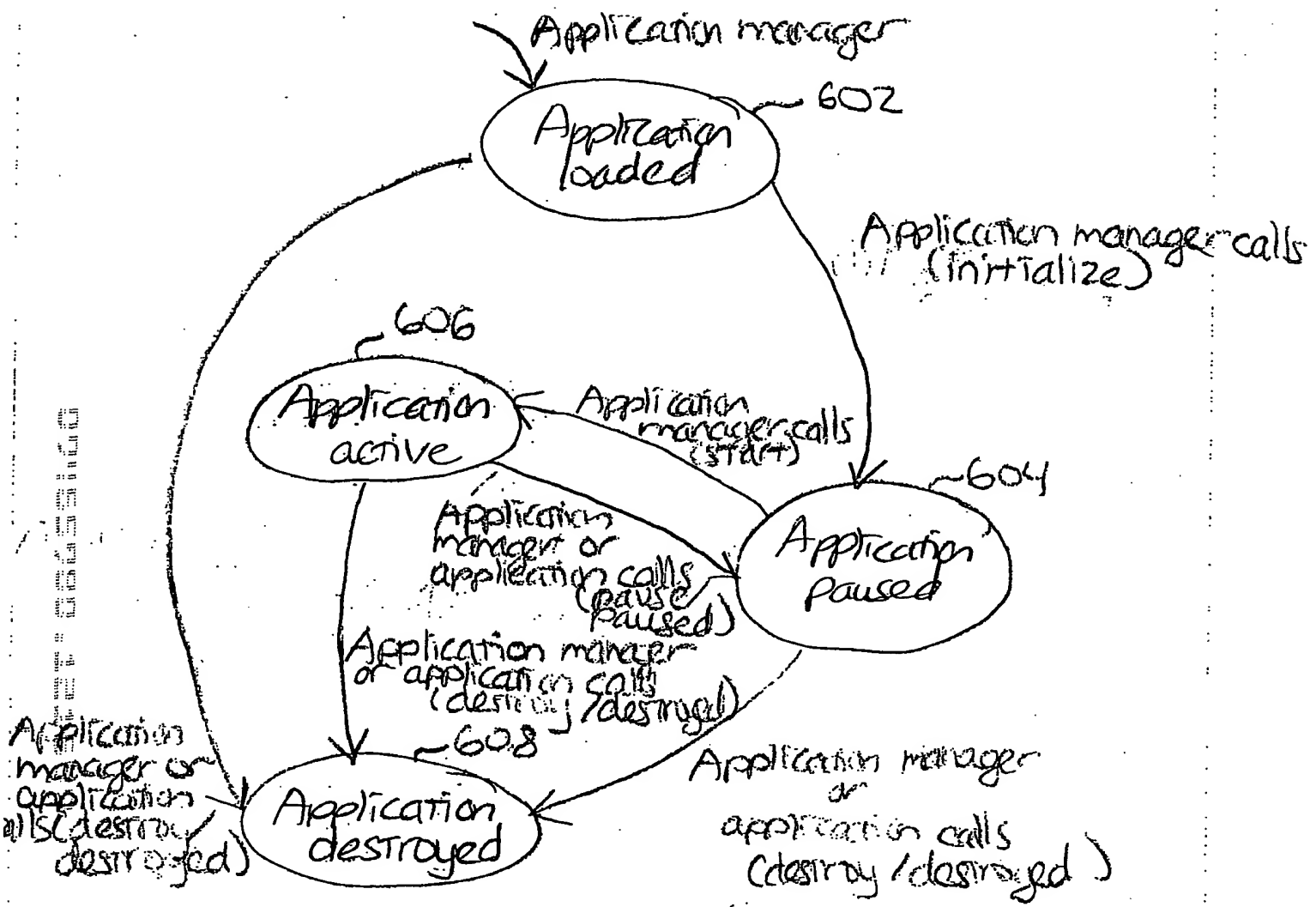


FIG. 6

Application Programming Interface (API)

~ 702

Interface application {

704 ~ public void init application (Application environment env); ~ 706
708 ~ public void start application();
710 ~ public void pause application();
712 ~ public void destroy application (boolean unconditional); ~ 714
}

to change state

FIG. 7

ApplicationEnvironmentInterface

~802

Interface Application-environment {

804 ~ public void destroyed();

808 ~ public java.lang.Object + getProperty(String key); ~810

806 ~ public void paused();

812 ~ public void resumeRequest();

}

FIG. 8

Application ~902
manager

Application ~904

Call init application () → ~906
Call start application () → ~908

Call destroy application () → ~910

Call pause application () → ~912

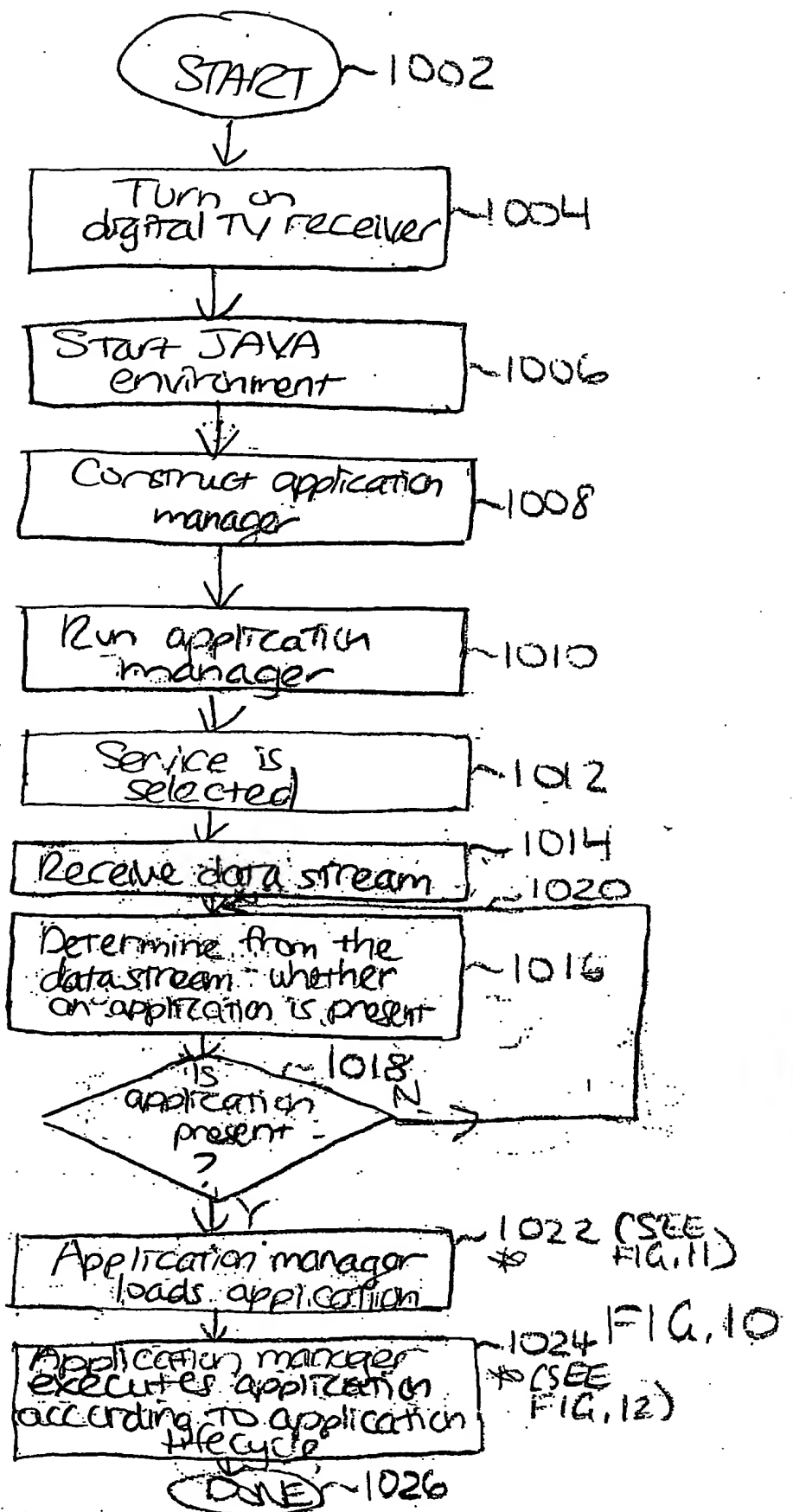
914 ~ ← Application-environment.applicationPaused()

916 ~ ← Application-environment.applicationDestroyed()

918 ~ ← Application-environment.resumeRequest()

920 ~ ← Application-environment.getProperty()

FIG. 9



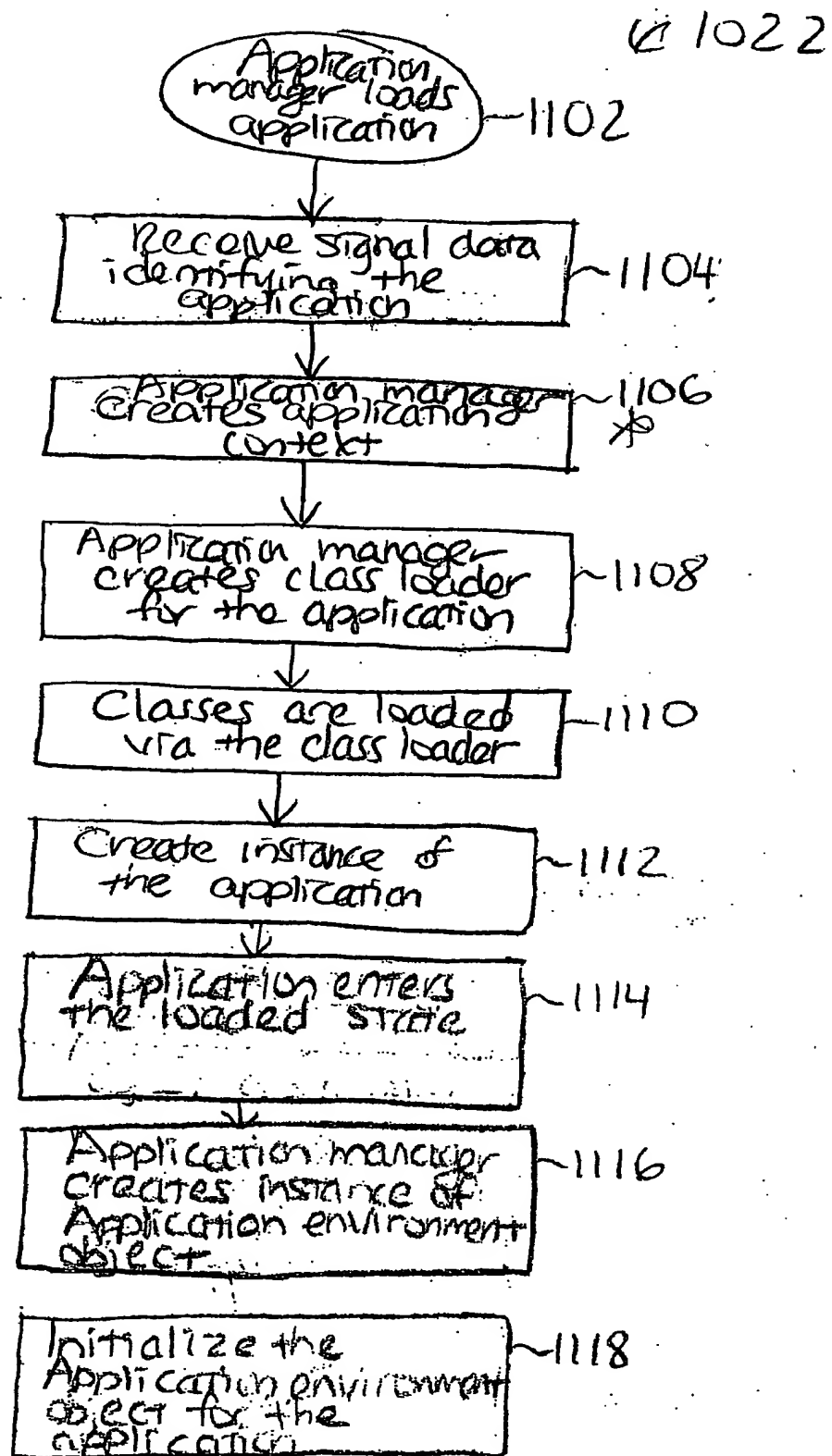


FIG. 11

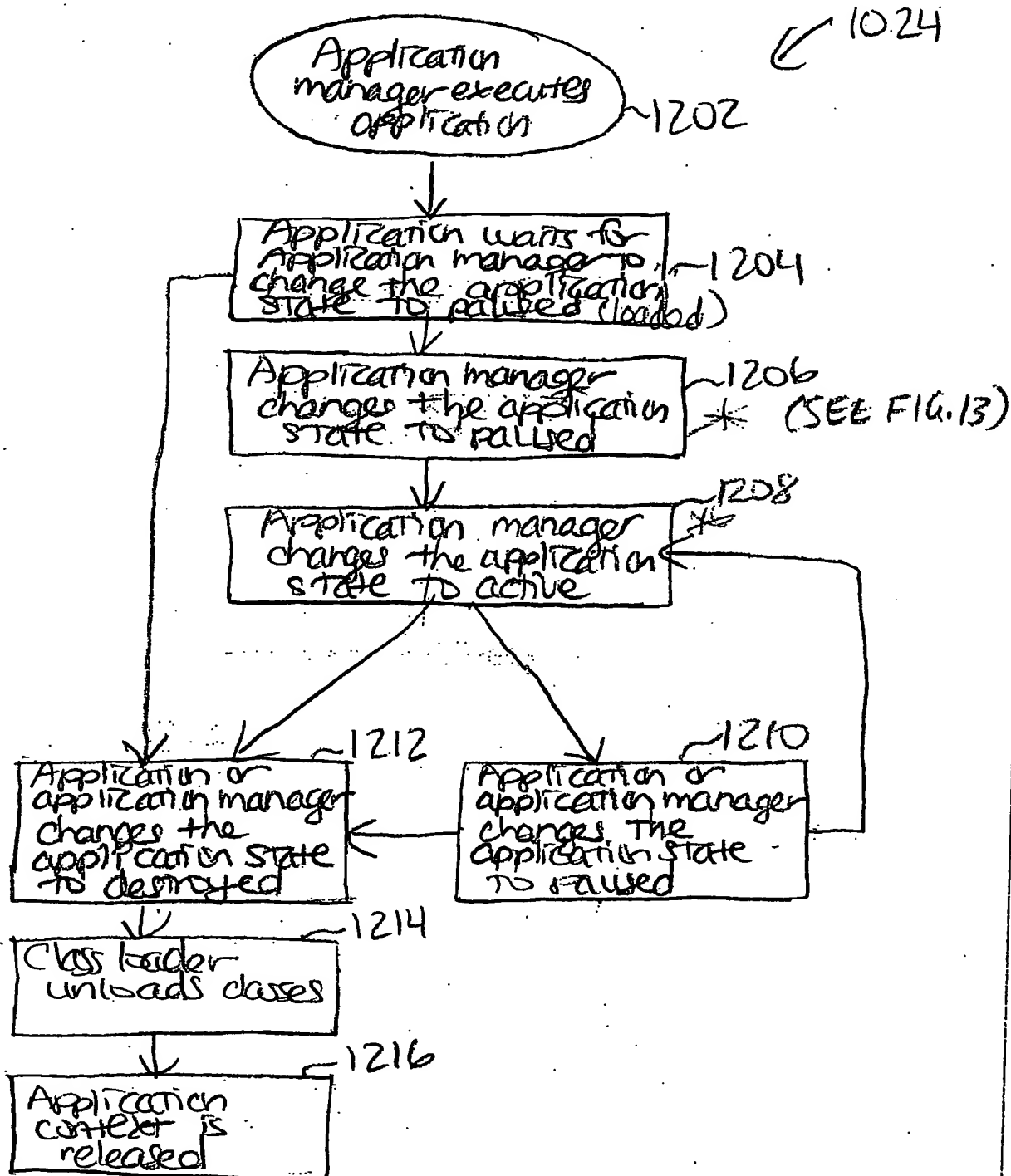


FIG. 12

Application manager changes state to paused ~1302

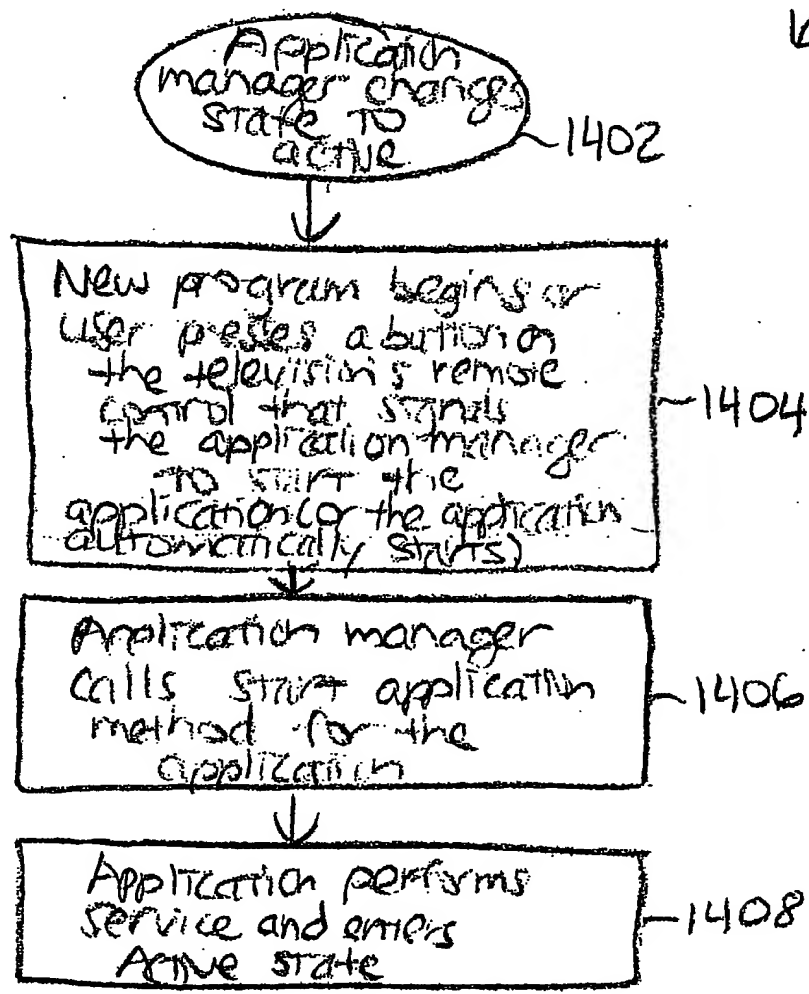
1206

Application manager calls init application and passes it the application environment object ~1304

Application uses the application environment object to initialize itself ~1306 ??

Application enters the Paused state ~1308

FIG. 13



1208

FIG. 14

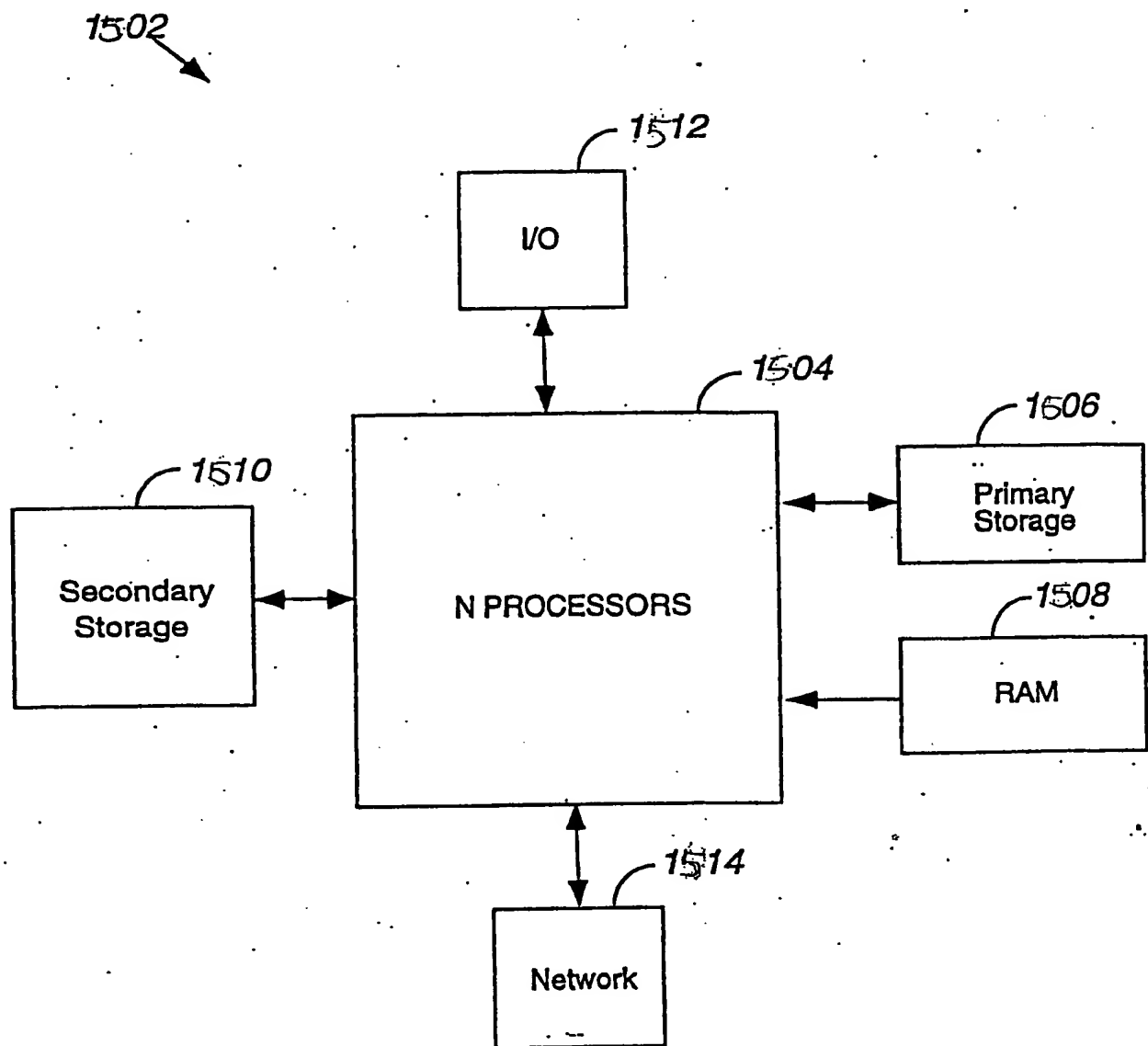


Figure 15

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